SERVICE MANUAL

COMPUTERIZED FULLY AUTOMATIC DD TURNTABLE

SANSUI P-M700

CAUTION

1. Parts identified by the ⚠ symbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

Sansui

SANSUI ELECTRIC CO., LTD.

•SPECIFICATIONS

Type	Direct-drive turntable
Rated speeds	33-1/3, 45 rpm
Platter	Aluminum alloy diecast, 306 mm (12-1/16″) diameter, 0.6 kg (1.3 lbs.) weight
Motor	Brushless & Coreless DC (FG-Servo)
Wow/flutter	0.028% (WRMS)
Signal-to-noise ratio	Better than 72 dB (DIN-B) Better than 60 dB (IEC-B)
Tonearm	Statically-balanced type
Effective tonearm length	142 mm (5-5/8″)
Cartridge	Dual Magnet type (SV-S707)
Output voltage	2.5 mV (1,000 Hz, 35.4 mm/sec)
Correct load impedance	47 kohms
Frequency response	10~20,000 Hz
Stylus	0.6 mil diamond stylus (SN-707 replacement stylus)
Power voltage	110~120V/220~240V (50/60 Hz)
For U.S.A. and Canada	120 V (60 Hz)
Power consumption	20 W
Dimensions	345 mm (13-5/8″) W 99 mm (3-15/16″) H 360 mm (14-3/16″) D
Weight	5.5 kg (12.1 lbs.) net 6.5 kg (14.3 lbs.) packed

* Design and specifications subject to change without notice for improvements.
* Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage seleletors.

CAUTION

1. The symbols, UL, CSA, SA, BS, UK, EU, AS and XX (EXPORT) on the parts list and the schematic diagram mean followings respectively.

   UL..... Manufactured for U.S.A market.
   (Underwriters Laboratories approved model.)
   CSA..... Manufactured for Canadian market.
   SA..... Manufactured for South African market.
   BS, UK ..... Manufactured for United Kingdom market.
   EU ..... Manufactured for European market.
   AS..... Manufactured for Australian market.
   XX (EXPORT) ..... Standard Version.
   NON MARK ..... Common Parts.

2. Some printed circuit boards are not supplied as the assembled. To separate these in this service manual, the stock No's are not indicated at the ends of the board names. However, the individual parts on the circuit boards are provided by orders.

3. Since some of capacitors and resistors are omitted from parts lists in this service manual, refer to the Common Parts List for capacitors & resistors, which was issued on February 1983.

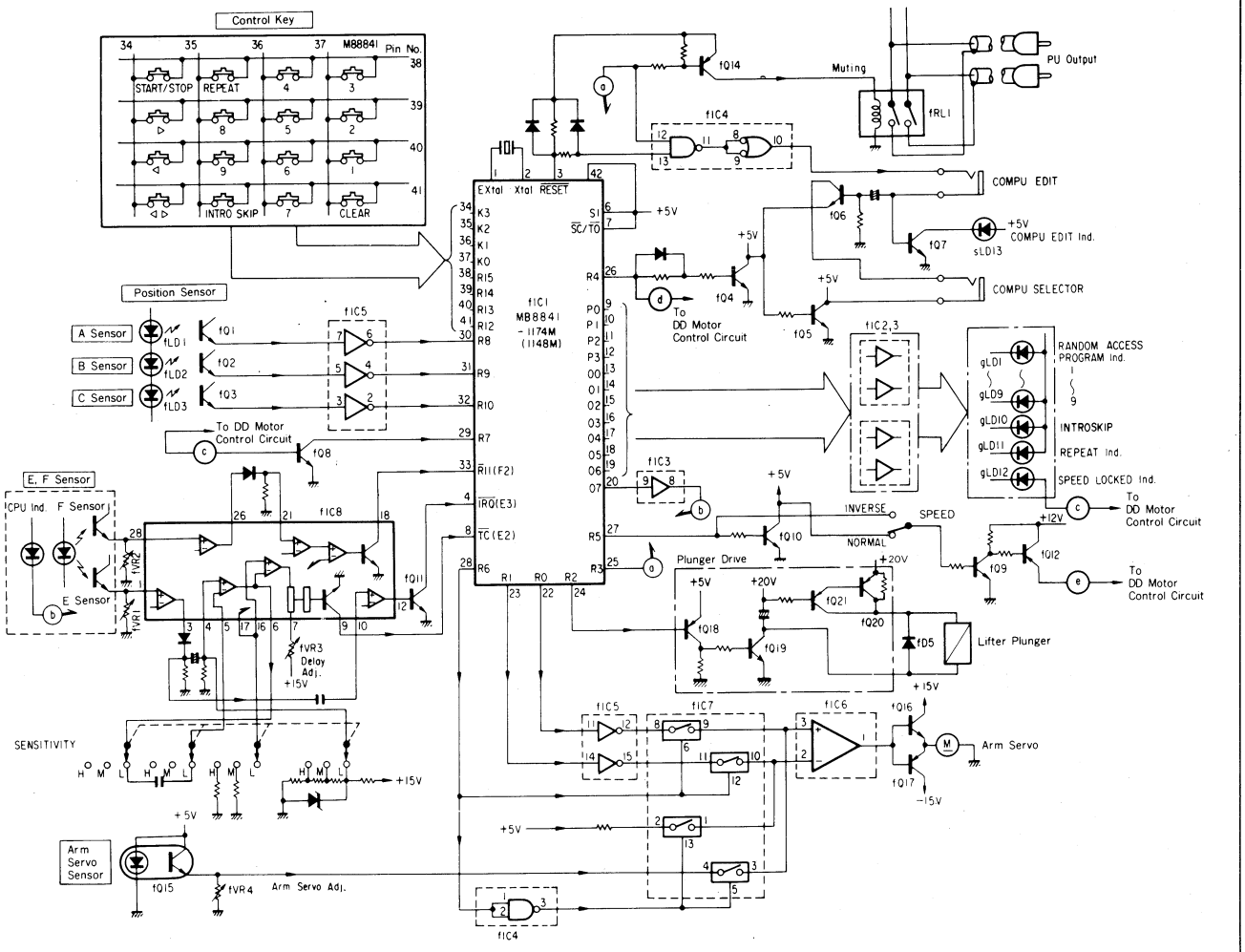
4. Abbreviations in this service manual are as follows.

•Abbreviations List

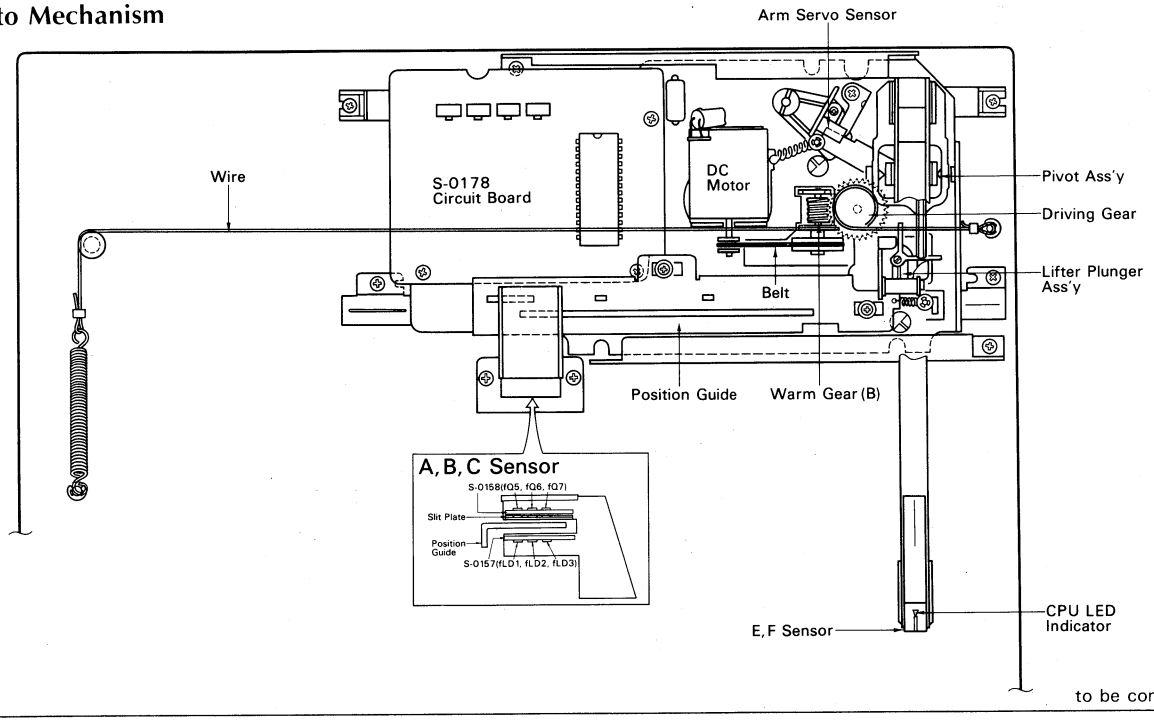
C.R.	: Carbon Resistor	E.B.L.	: Low Leak Bi-Polar Electrolytic Capacitor
S.R.	: Solid Resistor	Ta.C.	: Tantalum Capacitor
Ce.R.	: Cement Resistor	F.C.	: Film Capacitor
M.R.	: Metal Film Resistor	M.P.	: Metalized Paper Capacitor
F.R.	: Fusing Resistor	P.C.	: Polystyrene Capacitor
N.I.R.	: Non-Inflammable Resistor	G.C.	: Gimmic Capacitor
A.R.	: Array Resistor	A.C.	: Array Capacitor
C.C.	: Ceramic Capacitor	V.R.	: Variable Resistor
C.T.	: Ceramic Capacitor, Temperature Compensation	S.V.R.	: Semi Variable Resistor
E.C.	: Electrolytic Capacitor	SW.	: Switch
E.L.	: Low Leak Electrolytic Capacitor	Chip R.	: Chip Resistor
E.B.	: Bi-Polar Electrolytic Capacitor	Chip C.	: Chip Capacitor

1. BLOCK DIAGRAM

•Tone Arm Control Section

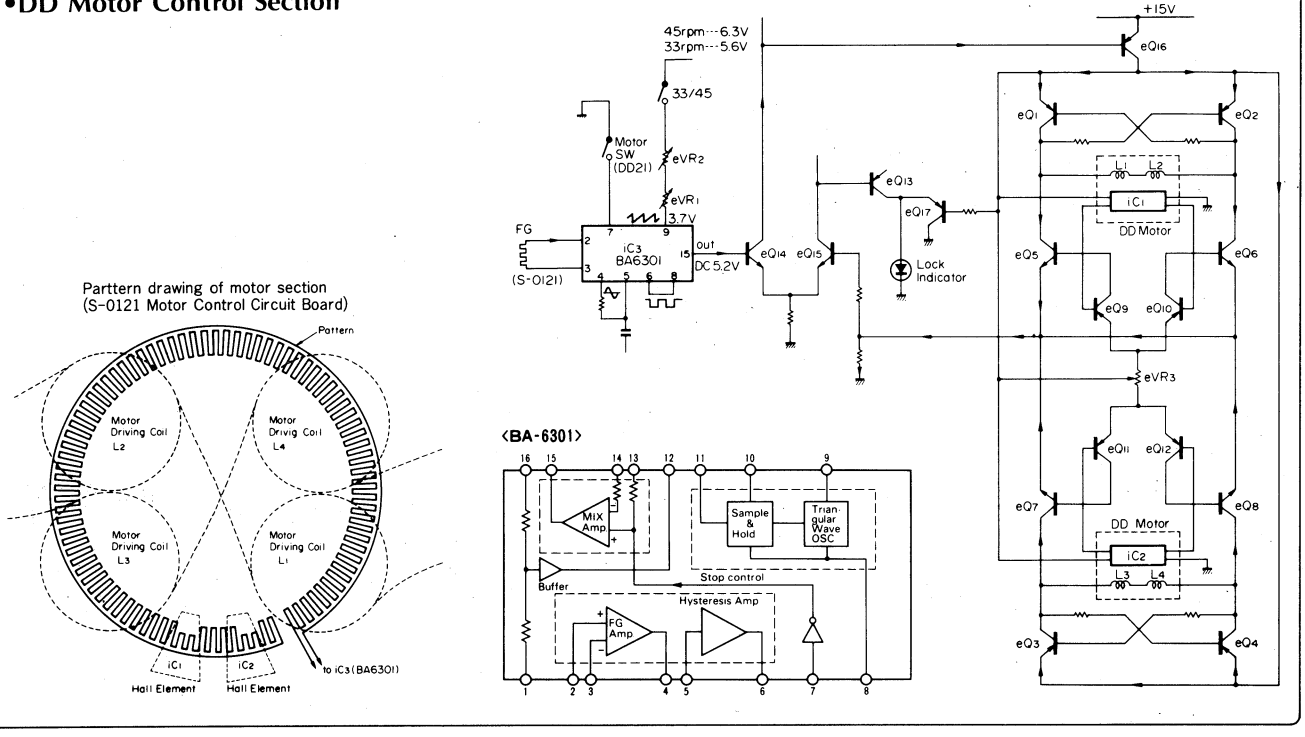


•Auto Mechanism



to be continued ►

•DD Motor Control Section



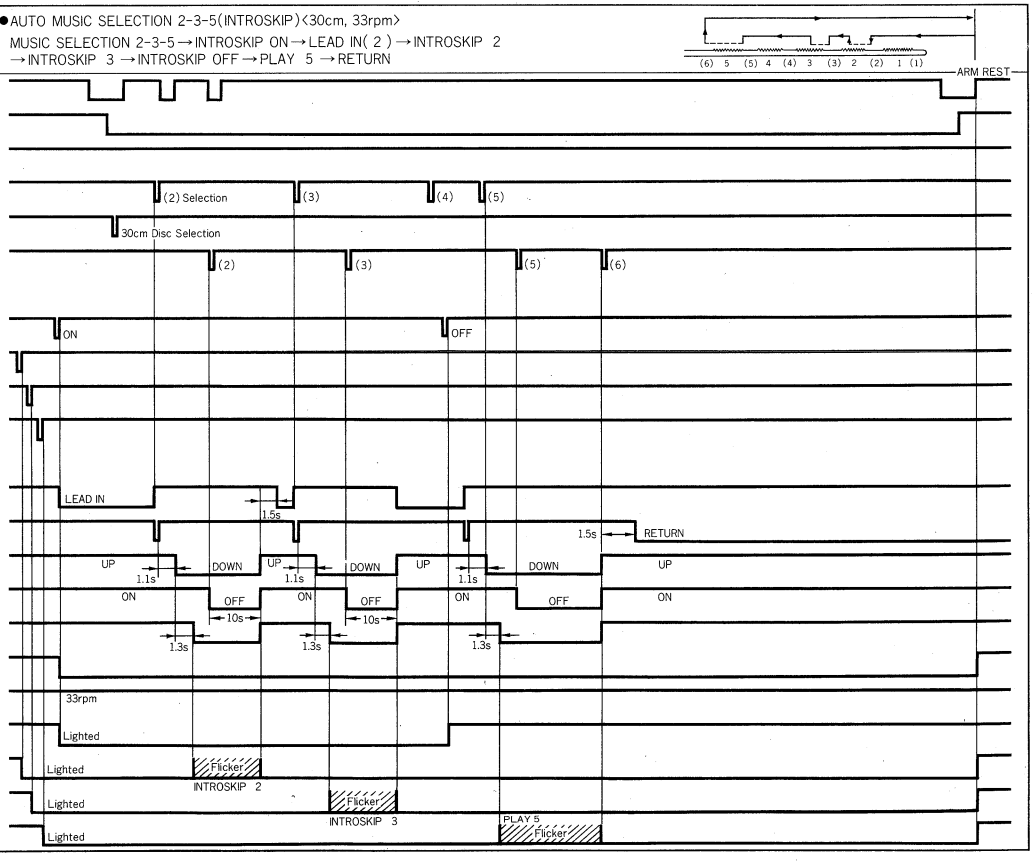
2. MICRO COMPUTER/MB8841-1174M TIMING CHART

2-1. AUTO MUSIC SELECTION Program 2-3-5 (Introskip) <30cm, 33rpm>

MICRO COMPUTER MB8841-1174M(1148M)

	INPUT/OUTPUT		PORT	PIN No.
INPUT	SENSOR	A	R_8	30
		B	R_9	31
		C	R_{10}	32
		E_2	TC	8
		E_3	IRQ	4
		F_2	R_{11}	33
	START/STOP Key		K_0, R_{12}	37, 38
	INTROSKIP Key		K_3, R_{12}	34, 40
	Music Selection Key (RANDOM ACCESS PROGRAM)	2	K_1, R_{15}	36, 38
		3	K_0, R_{15}	37, 38
		5	K_1, R_{14}	36, 39
OUTPUT	TONE ARM	IN	R_0	22
		OUT	R_1	23
	LIFTER		R_2	24
	MUTING		R_3	25
	SERVO		R_6	28
	DD MOTOR START/STOP		R_4	26
	SPEED 33/45rpm		R_5	27
	INTROSKIP Indicator		O_5	18
	Music Selection Indicator	2	P_1	10
		3	P_2	11
		5	O_5	13

●AUTO MUSIC SELECTION 2-3-5(INTROSKIP)<30cm, 33rpm>
MUSIC SELECTION 2-3-5 → INTROSKIP ON → LEAD IN(2) → INTROSKIP 2 → INTROSKIP 3 → INTROSKIP OFF → PLAY 5 → RETURN

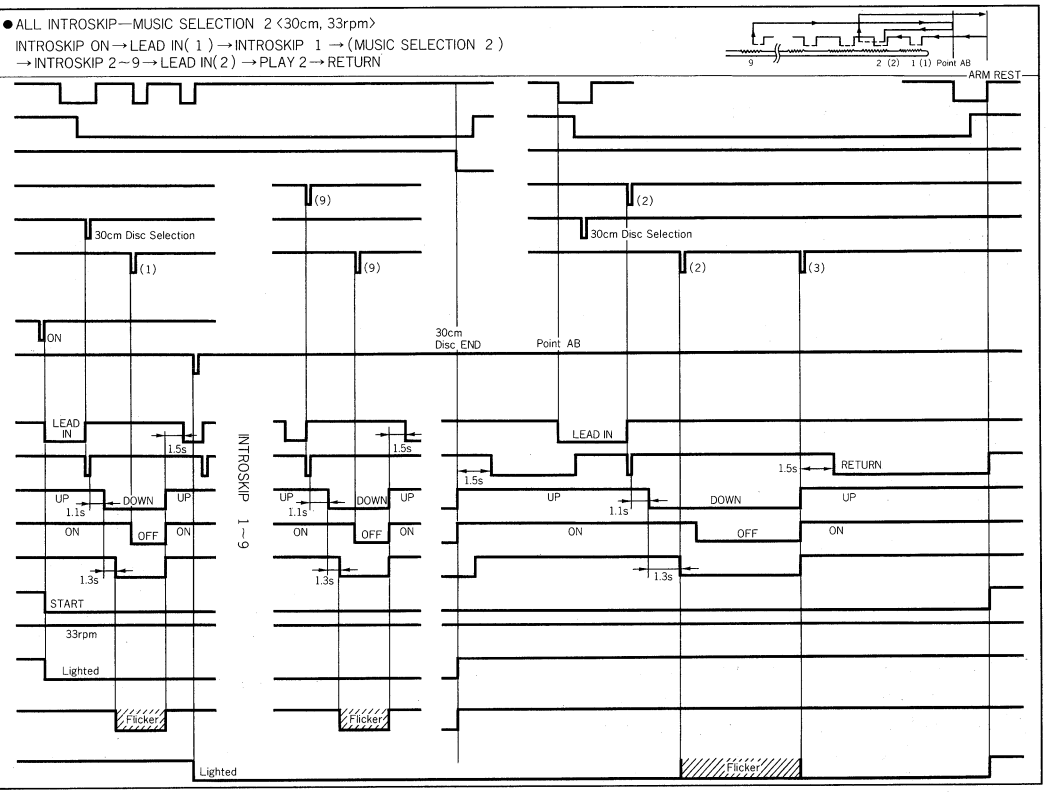


2-2. ALL INTROSKIP-MUSIC SELECTION Program-2 <30cm, 33rpm>

MICRO COMPUTER MB8841-1174M(1148M)

	INPUT/OUTPUT		PORT	PIN No.
INPUT	SENSOR	A	R_8	30
		B	R_9	31
		C	R_{10}	32
		E_2	TC	8
		E_3	IRQ	4
		F_2	R_{11}	33
	START/STOP Key		K_0, R_{12}	37, 41
	INTROSKIP Key		K_3, R_{13}	34, 40
	Music Selection 2 Key		K_1, R_{15}	36, 38
OUTPUT	TONE ARM	IN	R_0	22
		OUT	R_1	23
	LIFTER		R_2	24
	MUTING		R_3	25
	SERVO		R_6	28
	DD MOTOR START/STOP		R_4	26
	SPEED 33/45rpm		R_5	27
	INTROSKIP Indicator		O_5	18
	Music Selection Indicator	1 ↓ 9	K_0, R_{15} ↓ K_0, R_{12}	34, 38 ↓ 37, 41
		2	K_0, R_{14}	36, 38

● ALL INTROSKIP—MUSIC SELECTION 2 <30cm, 33rpm>
INTROSKIP ON → LEAD IN(1) → INTROSKIP 1 → (MUSIC SELECTION 2)
→ INTROSKIP 2~9 → LEAD IN(2) → PLAY 2 → RETURN

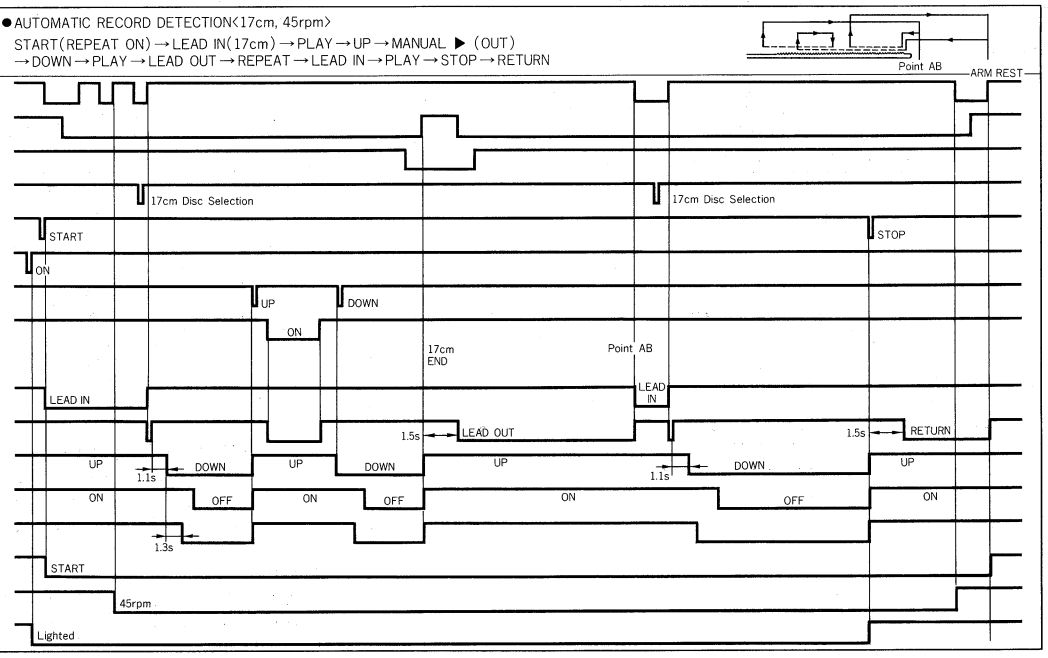


2-3. AUTOMATIC DISC SIZE DETECTION <17cm, 45rpm>

MICRO COMPUTER MB8841-1174M(1148M)

	INPUT/OUTPUT		PORT	PIN No.
INPUT	SENSOR	A	R_8	30
		B	R_9	31
		C	R_{10}	32
		E_3	IRQ	4
	START/STOP Key		K_0, R_{12}	37, 41
	PEPEAT Key		K_2, R_{15}	35, 38
	UP/DOWN Key		K_3, R_{12}	34, 41
	MANUAL(▶) Key		K_3, R_{14}	34, 39
OUTPUT	TONE ARM	IN	R_0	22
		OUT	R_1	23
	LIFTER		R_2	24
	MUTING		R_3	25
	SERVO		R_6	28
	DD MOTOR START/STOP		R_4	26
	SPEED 33/45rpm		R_5	27
	INTROSKIP Indicator		O_6	19

● AUTOMATIC RECORD DETECTION<17cm, 45rpm>
START(REPEAT ON) → LEAD IN(17cm) → PLAY → UP → MANUAL ▶ (OUT)
→ DOWN → PLAY → LEAD OUT → REPEAT → LEAD IN → PLAY → STOP → RETURN



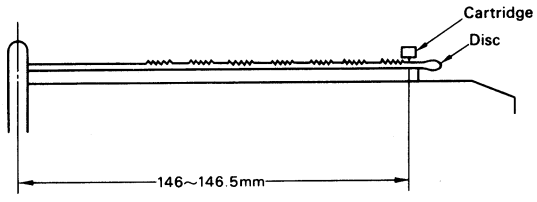
3. ADJUSTMENTS

Note: Before adjustments of 3-1, 3-2, 3-3 and 3-4, remove the player case cover only.

3-1. Adjustment of Automatic disc Size Selection Operation (See Figs. 3-1 and 3-3)

1) By using 30 cm size disc, actually carry out the automatic disc size selection operation (lead-in operation). Adjust the lead-in adjusting cam (See Fig. 3-3) so that the stylus tip may come down to the position (the lead-in groove position) 146 ~ 146.5 mm away from the disc center (See Fig. 3-1).
2) By using 17 cm size disc, actually carry out the automatic disc size selection operation (lead-in operation). Confirm that the stylus tip may come down to the lead-in groove position.

Fig. 3-1



3-2. Adjustment of Automatic Music Selection Operation (See Figs. 3-2 (a), (b) and 3-3)

- **Required disc and measuring instruments**

1) Multi Meter (DC voltmeter)
   Input impedance: 50kohm/V or more. (The higher, the better)
2) A vinyl chloride record disc without grooves or with wider leadout spiral than usual.
3) A rule with graduation marks starting from the edge.

A. Tone Arm Height Adjustment

Adjust the height as shown in Fig. 3-2 (a), (b) by rotating the tone arm height adjusting screw (See Fig. 3-3). (Stop the stylus at a position about 110 mm away from the disc center.)

Fig. 3-2(a)

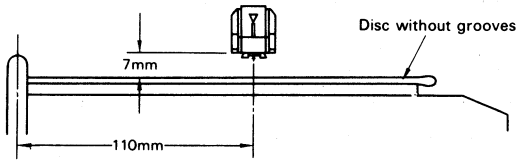


Fig. 3-2(b)

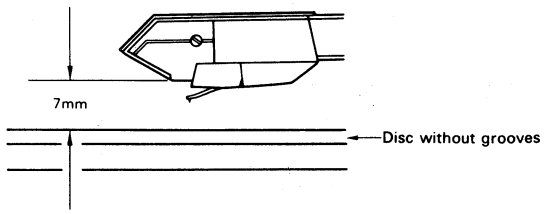
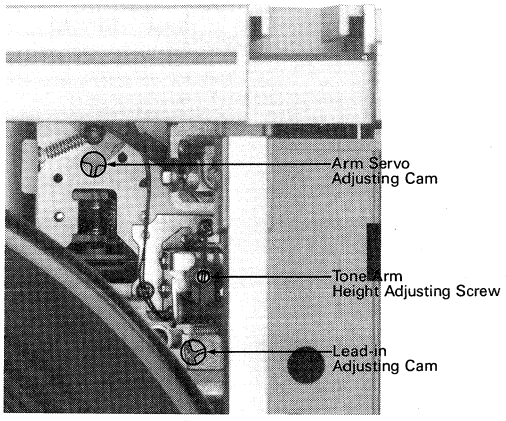


Fig. 3-3



B. Sensitivity adjustment of E and F sensor

1. Setting

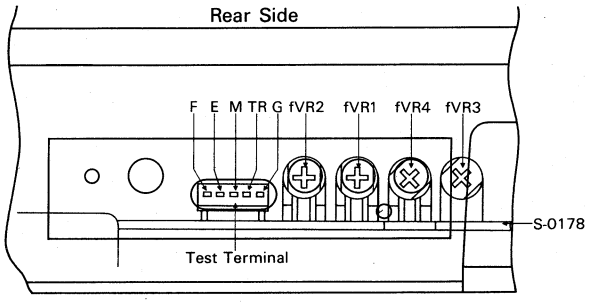
At the tone arm position, in case of a record disc without grooves, stop the stylus at a position about 105 mm away from the disc center. In case of a record disc having grooves, stop the stylus above the flat surface nears 105 mm away from the disc center.

2. How to adjust (See Fig. 3-4)

a) At the tone arm up position, connect the DC voltmeter across the test terminal "E" and "G (ground)" (S-0178) and then adjust the voltage to DC 2.5V by rotating the volume (fVR1, S-0178). <E sensor adjustment>
b) Move the tone arm downward.
c) Connect the DC voltmeter across the test terminal "F" and "G (ground)" and then adjust the voltage to DC 2.5V by rotating the volume (fVR2, S-0178). <F sensor adjustment>

Note: When adjusting both the sensors with the stylus stopped on a lead-over groove of an ordinary record disc, note that there is a difference in detection position between E sensor (leading sensor) and F sensor.

Fig. 3-4



3-3. Delay adjustment of E_2 signal

- The E_2 signal is a music number counting signal required for moving down the tone arm at a desired music position during the automatic music selection operation.

1. Objective

a) Since the E sensor is located about 2 mm before the stylus, it is necessary to electrically delay the signal from the E sensor.
b) Since some of the mechanical parts are moved with accurary of the order of milliseconds, it is necessary to adjust error due to mechanical operation.
c) Since detection error occurs due to an eccentricity of the record disc, it is necessary to adjust the error.

2. Setting

Use the record disc with narrower music intervals.

3. Adjustment (See Figs. 3-5, 3-6, 3-7 and Top View on page 12)

a) Perform the respective lead-in operation for selected music track, and adjust the operation by rotating the volume (fVR3, S-0178) as shown in Fig. 3-6, 3-7 (with the tone arm placed on the arm rest) so that the stylus comes down on or a little before the lead-over grooves for the music track. If the volume (fVR3, S-1078) is rotated clockwise, the lift-down position of the stylus is shifted inward. However, if the stylus comes down before the lead-over grooves, be sure that the muting switch is turned off within 20 sec after the stylus moves down. The muting time from 4 to 6 sec is desirable.

Fig. 3-5

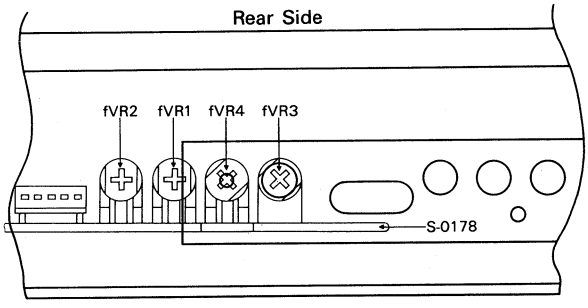


Fig. 3-6

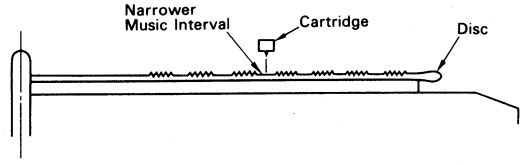
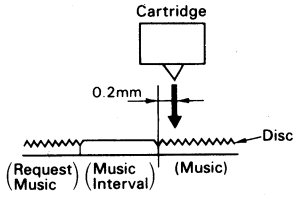


Fig. 3-7



3-4. Lateral-direction Adjustment of E and F Sensor

* If automatic music selection play is unsufficient by adjustments 3-2 and 3-3, perform the following.

1. Setting

a) Mount a record disc in which many music groove.
b) Set the sensitivity selection switch to H when the music interval groove is narrow, and to M when medium.

2. How to adjust (See Figs. 3-8 and 3-9)

a) Push the music selection switch for the first music, and also the start/stop switch.
b) Immediately after the stylus begins to come down, moe the arm by hand so that the stylus may trace the disc groove beginning from a position 2 mm or more outward from the lead-over groove.
c) Immediately after the above tracing, push the lifter switch twice. Be sure to push it with a time interval of 1 sec or more, because of a ready operation to receive F_2 signal.
d) Adjust the positions of E and F sensor by rotating the adjusting screws so that the muting switch can be turned ON (a click sound of relay action is heard) when the stylus has passed through the music interval groove. If the muting switch is turned ON earlier, rotate the adjusting screw clockwise to turn ON the switch later. (The thread pitch is 0.45 mm.)

* Perform adjustments 3-2 and 3-3 shown left accordinary after completion of **3-4. Lateral-direction Adjustment of E and F sensor.**

Fig. 3-8

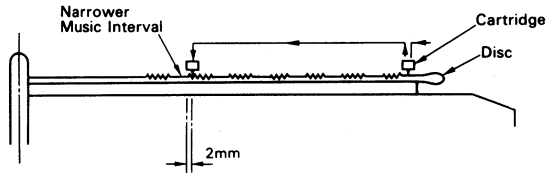
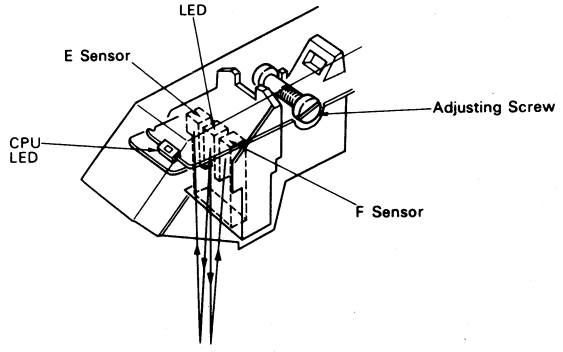


Fig. 3-9

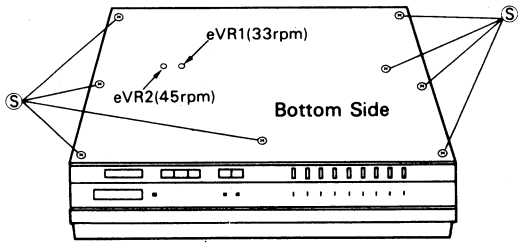


3-5. Speed Adjustment

1-a) Set the Speed Selector to Normal.
1-b) Mount a 30 cm size record disc and push the start/stop switch.
1-c) Adjust eVR1 on the D.D. Motor Control Circuit Board (See Fig. 3-10) so as to standstill the strobo marking pattern.
2-a) Set the Speed Selector to Normal.
2-b) Mount a 17 cm size record disc and push the start/stop switch.
2-c) Adjust eVR2 on the D.D. Motor Control Circuit Board (See Fig. 3-10) so as to standstill the strobo marking pattern.

- Set eVR3 (S-0121) center position.

Fig. 3-10



Note: Remove the cabinet before adjustments of 3-6.

- **How to remove the cabinet. (See Top View on Page 12)**

1) Take off turntable sheet and turntable platter.
2) Remove the play case cover.
3) Loosen 8 screws Ⓢ to remove cabinet. (See Fig. 3-10)
4) Remove the cabinet upward slowly.

* Do not strike tone arm with the cabinet.

3-6. Arm Servo Signal Adjustment

(See Figs. 3-3, 3-11, 3-12 and 3-13)

1) Move the tone arm leftward and stop the stylus at a position about 105 mm away from the disc center by depressing the MANUAL (◄) key.
2) Connect the DC voltmeter across the test terminal "TR" and "G" shown in Fig. 3-12.
3) The tone arm servo level goes up more when the tone arm is moved rightward slightly by hand.
4) Adjust the voltage of "item 3)" to DC 4V by rotating the volume (fVR4).
5) Move the tone arm downward by depressing UP/DOWN key.
6) Rotate the arm servo adjusting cam slowly clockwise just right before the tone arm starts moving outwards, then read the indication on DC voltmeter.
7) Next, rotate the arm servo adjusting cam slowly counterclockwise just right before the tone arm starts moving inwards, then read the indication as well.
8) Set the fixed value to average voltage between two indications obtained in 6) and 7) above, by rotating (fVR4).
9) Connect the DC voltmeter across the test terminal "M" and "G" (See Fig.3-13) and then confirm that the voltage is within ±1V.
10) Check that the tone arm will not move in either direction when the UP/DOWN key is depressed repeatedly, if necessary, rotating the volume (fVR4) slightly.

Fig. 3-11

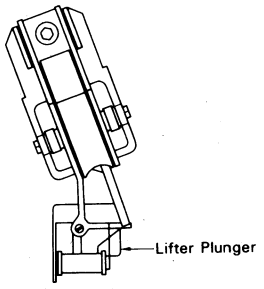


Fig. 3-12

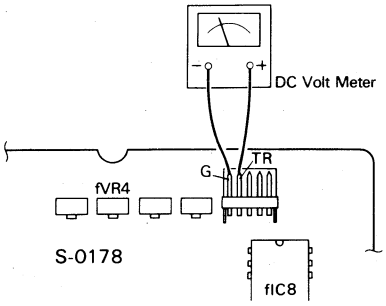
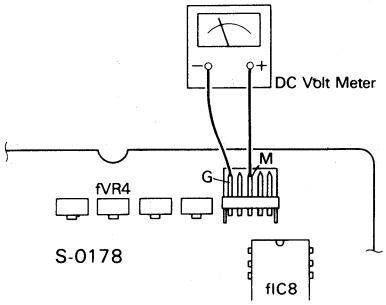


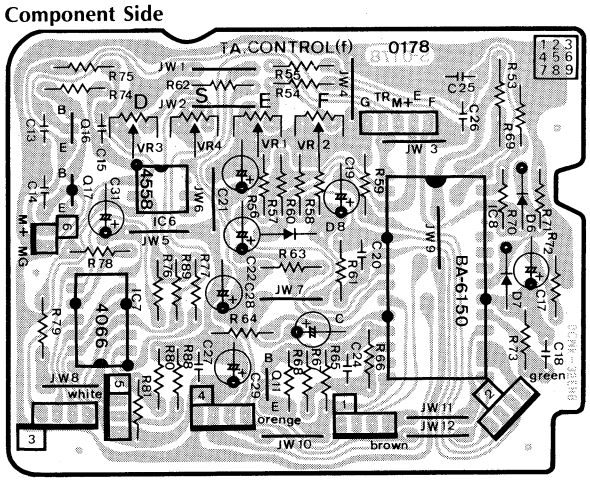
Fig. 3-13



4. PARTS LOCATION & PARTS LIST

4-1. S-0178 Tone Arm Control (Sub) Board (Stock No. 13219201)

Component Side

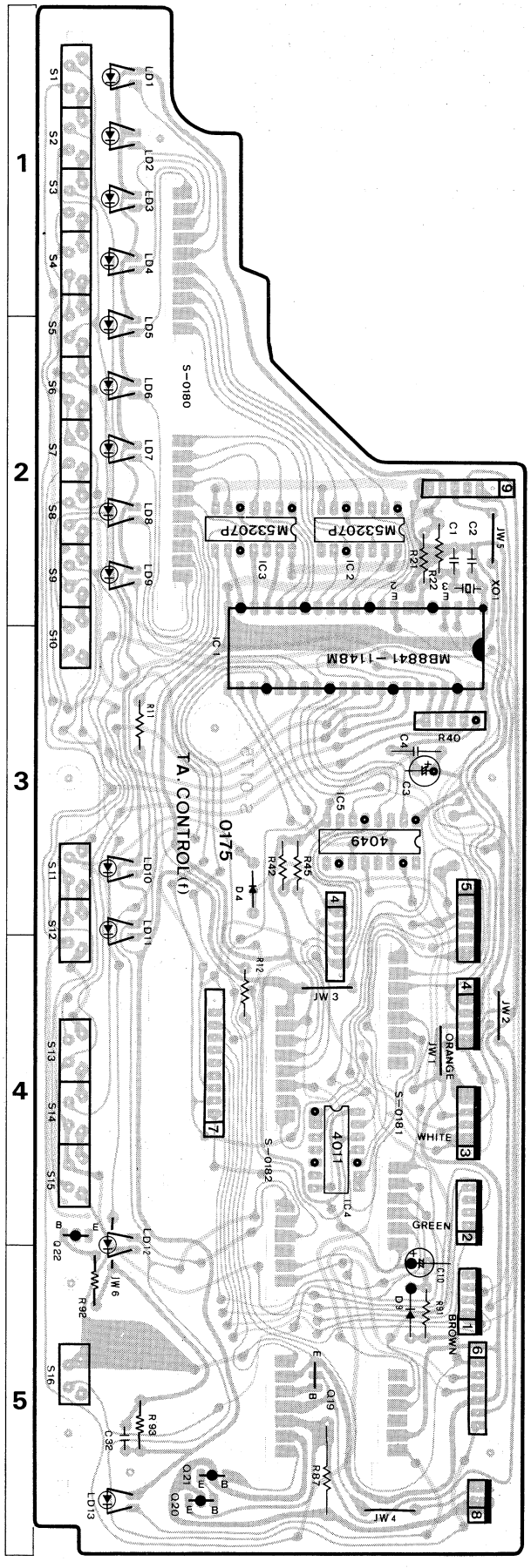


Parts List

Parts No.	Stock No.	Description
•Transistor		
fQ11	46367101	2SC2603
	or 46367301	2SC2458
fQ16	46614100	2SC3243
	or 48000901	2SC2060
fQ17	46614000	2SA1283
	or 48000801	2SA934
•IC		
fIC6	03607700	NJM4558D
	or 46580100	M5218P
fIC7	07264600	MSM4066RS
	or 46164300	MB84066B
	or 48063800	BU4066B
fIC8	46321300	BA6150
•Diode		
fD6	03117600	1S2473T77
	or 46086000	1S1588TP-3
fD7	03117600	1S2473T77
	or 46086000	1S1588TP-3
fD8	03117600	1S2473T77
	or 46086000	1S1588TP-3
fR53	46236500	470Ω 1/2W N.I.R.
fC17	46407600	22μF 25V E.C.
fC18	46284100	0.1μF 50V F.C.
fVR1	46180500	200kΩ S.V.R., E sensor adj.
fVR2	46180500	200kΩ S.V.R., F sensor adj.
fVR3	46180600	500kΩ S.V.R., delay adj.
fVR4	46180100	10kΩ S.V.R., arm servo adj.

4-2. S-0175 Tone Arm Control (Main) Board (Stock No. 13218901)

Component Side

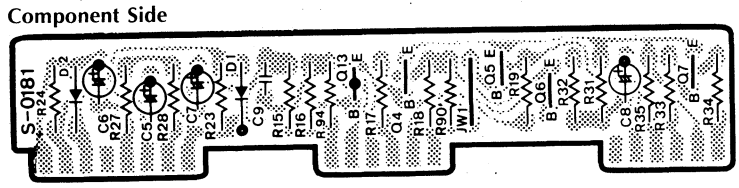


Parts List

Parts No.	Stock No.	Description
•Transistor		
fQ19	46501401	2SD1226
fQ20	46501301	2SB910M
fQ21	07299601	2SA1115
	or 46078701	2SA1048
	or 07197001	2SA733
fQ22	07299601	2SA1115
	or 46078701	2SA1048
•Diode		
fD4	03111600	1S2473D
fD9	03111600	1S2473D
•IC		
fIC1	46602500	MB8841-1148M
fIC2	46148500	HD7407P
	or 46220600	M53207P
	or 46707800	M53217P
fIC3	46148500	HD7407P
	or 46220600	M53207P
	or 46707800	M53217P
fIC4	03604100	TC4011P
	or 07207200	MB84011BM
	or 48050100	MSM4011BRS
	or 48063700	BU4011B
fIC5	46160400	MB84049B
	or 46531000	μPD4049UBC
	or 48050400	MSM4049BRS
fXO1	46505500	Ceramic Element KBR-3-58M
•Diode		
fD4	03111600	1S2473
fD9	03111600	1S2473
⚠fR87	00145900	150Ω 2W N.I.R.
•LED		
gLD1	46606400	SLP-960C (Red)
gLD2	46606400	SLP-960C (Red)
gLD3	46606400	SLP-960C (Red)
gLD4	46606400	SLP-960C (Red)
gLD5	46606400	SLP-960C (Red)
gLD6	46606400	SLP-960C (Red)
gLD7	46606400	SLP-960C (Red)
gLD8	46606400	SLP-960C (Red)
gLD9	46606400	SLP-960C (Red)
gLD10	46606400	SLP-960C (Red)
gLD11	46606400	SLP-960C (Red)
gLD12	46173900	SLP-270C (Green)
gLD13	46606400	SLP-960C (Red)
gSW1	46394200	Push SW. (Tact) RANDOM ACCESS PROGRAM
gSW2	46394200	Push SW. (Tact) RANDOM ACCESS PROGRAM
gSW3	46394200	Push SW. (Tact) RANDOM ACCESS PROGRAM
gSW4	46394200	Push SW. (Tact) RANDOM ACCESS PROGRAM
gSW5	46394200	Push SW. (Tact) RANDOM ACCESS PROGRAM
gSW6	46394200	Push SW. (Tact) RANDOM ACCESS PROGRAM
gSW7	46394200	Push SW. (Tact) RANDOM ACCESS PROGRAM
gSW8	46394200	Push SW. (Tact) RANDOM ACCESS PROGRAM
gSW9	46394200	Push SW. (Tact) RANDOM ACCESS PROGRAM
gSW10	46394200	Push SW. (Tact), CLEAR
gSW11	46394200	Push SW. (Tact), REPEAT
gSW12	46394200	Push SW. (Tact), INTROSKIP
gSW13	46394200	Push SW. (Tact), UP/DOWN
gSW14	46394200	Push SW. (Tact), MANUAL ►
gSW15	46394200	Push SW. (Tact), MANUAL ◄
gSW16	46394200	Push SW. (Tact), START/STOP

4-3. S-0181 Compu•Edit/Compu•Selector Board (Stock No. 13224501)

Component Side

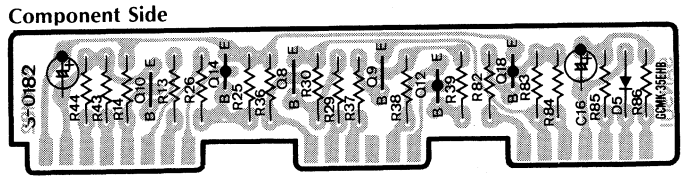


Parts List

Parts No.	Stock No.	Description
•Transistor		
fQ4	46367101	2SC2603
	or 46367301	2SC2458
fQ5	46367101	2SC2603
	or 46367301	2SC2458
fQ6	46367101	2SC2603
	or 46367301	2SC2458
fQ7	46367101	2SC2603
	or 46367301	2SC2458
fQ13	46367001	2SA1115
	or 46367201	2SA1048
•Diode		
fD1	03117600	1S2473D
	or 46086000	1S1588TP-3
fD2	03117600	1S2473D
	or 46086000	1S1588TP-3

4-4. S-0182 Motor Control Board (Stock No. 13224601)

Component Side

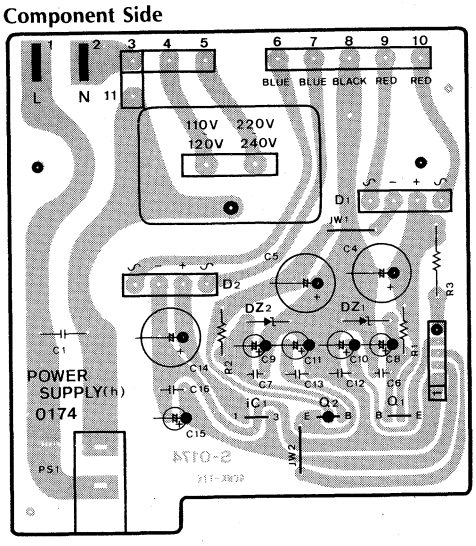


Parts List

Parts No.	Stock No.	Description
•Transistor		
fQ8	46367101	2SC2603
	or 46367301	2SC2458
fQ9	46367101	2SC2603
	or 46367301	2SC2458
fQ10	46367101	2SC2603
	or 46367301	2SC2458
fQ12	46367001	2SA1115
	or 46367201	2SA1048
fQ14	46367001	2SA1115
	or 46367201	2SA1048
fQ18	46367001	2SA1115
	or 46367201	2SA1048
•Diode		
fD5	03117600	1S2473D
	or 46086000	1S1588TP-3

4-5. S-0174 Power Supply Board

Component Side

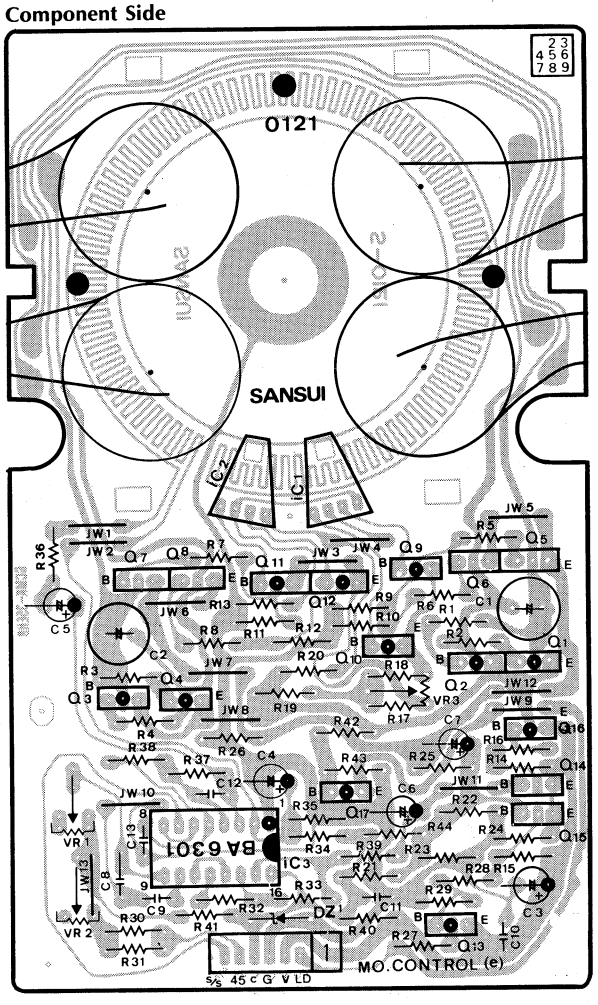


Parts List

Parts No.	Stock No.	Description
•Transistor		
⚠hQ1	03083902	2SD313
⚠hQ2	46149301	2SB744
•IC		
⚠hIC1	07183500	μPC78M05H
⚠	or 46144200	NJM78M05A
•Diode		
⚠hD1	03117000	RB-152
⚠hD2	03117000	RB-152
•Zener Diode		
hDZ1	46104500	05Z16-X
	or 46104800	05Z18-X
hDZ2	46104500	05Z16-X
	or 46104800	05Z18-X
⚠hR1	08924100	1kΩ 1/2W N.I.R.
⚠hR2	08924100	1kΩ 1/2W N.I.R.
hR3	46623400	18Ω 2W N.I.R.
hC1	46425800	10000pF 400V C.C.
⚠hSW1	46413900	Push SW., POWER

4-6. S-0121 DD Motor Control Board

Component Side

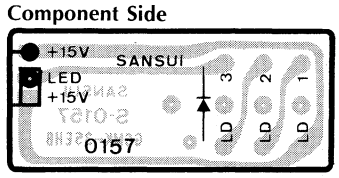


Parts List

Parts No.	Stock No.	Description
•Transistor		
eQ1	46359701	2SA952
	or 48000801	2SA934
eQ2	46359701	2SA952
	or 48000801	2SA934
eQ3	46359701	2SA952
	or 48000801	2SA934
eQ4	46359701	2SA952
	or 48000801	2SA934
eQ5	46359801	2SC2001
	or 48000801	2SA934
eQ6	46359801	2SC2001
	or 48000801	2SA934
eQ7	46359801	2SC2001
	or 48000801	2SA934
eQ8	46359801	2SC2001
	or 48000801	2SA934
eQ9	46367401	2SA733A
	or 46367001	2SA1115
	or 46367201	2SA1048
eQ10	46367401	2SA733A
	or 46367001	2SA1115
	or 46367201	2SA1048
eQ11	46367401	2SA733A
	or 46367001	2SA1115
	or 46367201	2SA1048
eQ12	46367401	2SA733A
	or 46367001	2SA1115
	or 46367201	2SA1048
eQ13	46367001	2SA1115
	or 46367201	2SA1048
	or 46367401	2SA733A
eQ14	46367101	2SC2603
	or 46367301	2SC2458
	or 46367501	2SC945A
eQ15	46367101	2SC2603
	or 46367501	2SC945A
	or 46367301	2SC2458
eQ16	46614001	2SA1283
	or 48000801	2SA934
eQ17	46614001	2SA1283
	or 46367201	2SA1048
	or 46367401	2SA733A
•IC		
eIC1	46354301	HW-301C-Q
	or 46354302	HW-301C-R
eIC2	46354301	HW-301C-Q
	or 46354302	HW-301C-R
eIC3	46354400	BA6301
•Zener Diode		
eDZ1	46113800	05Z12-X
	or 46113900	05Z12-Y
	or 46114000	05Z12-Z
eR41	46639000	240kΩ 1/4W M.R.
eC1	08451100	22μF 16V E.C.
eC2	08451100	22μF 16V E.C.
eVR1	46366600	100kΩ(B) S.V.R., 33r.p.m.
eVR2	07241700	200kΩ(B) S.V.R., 45r.p.m.
eVR3	07241000	1kΩ(B) S.V.R., wow and flatter

4-7. S-0157 A, B, C Senser (LED) Board

Component Side

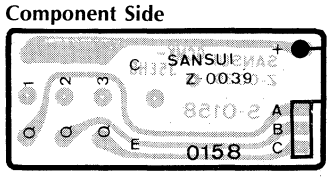


Parts List

Parts No.	Stock No.	Description
•LED		
fLD1	46150400	TLR121
fLD2	46150400	TLR121
fLD3	46150400	TLR121

4-8. S-0158 A, B, C Senser (Photo Transistor) Board

Component Side

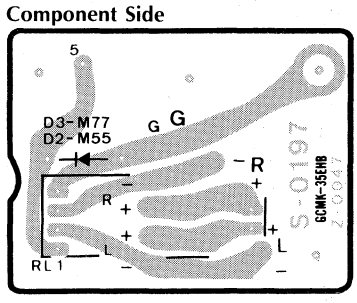


Parts List

Parts No.	Stock No.	Description
•Photo Transistor		
fQ1	46160000	TPS605
fQ2	46160000	TPS605
fQ3	46160000	TPS605

4-9. S-0197 Muting Relay Board

Component Side

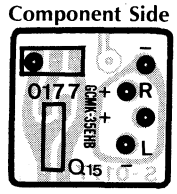


Parts List

Parts No.	Stock No.	Description
•Diode		
fD3	07176400	1S2473HS
fRL1	46173300	Relay

4-10. S-0177 Arm Servo Sensor Board

Component Side

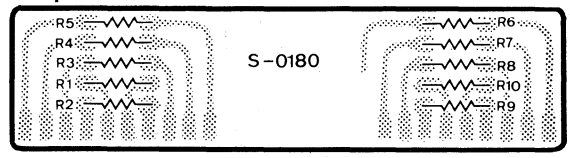


Parts List

Parts No.	Stock No.	Description
fQ15	46603900	Photo Coupler GP-1S03

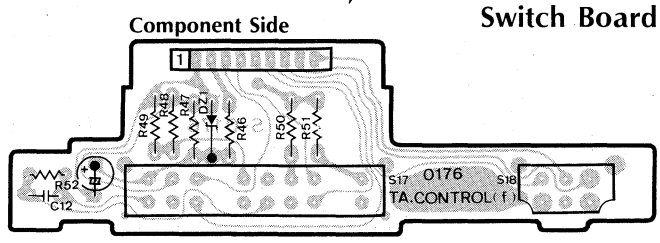
4-11. S-0180 Indicator Board

Component Side



4-12. S-0176 SENSITIVITY, NORMAL/INVERSE Switch Board

Component Side

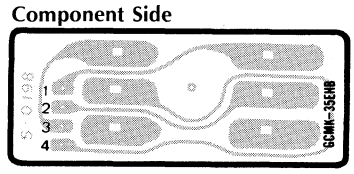


Parts List

Parts No.	Stock No.	Description
•Zener Diode		
fDZ1	46103100	05Z10-Y
gSW17	46133500	Slide SW., SENSITIVITY
gSW18	46133600	Slide SW., Speed

4-13. S-0198 COMPU SELECTOR Jack Board

Component Side

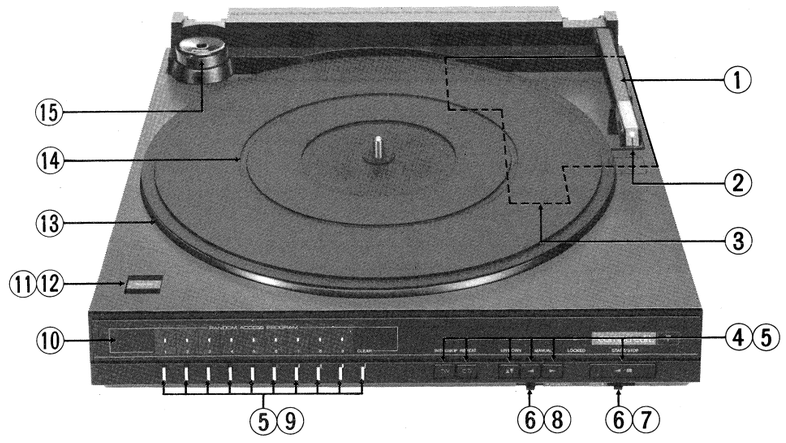


Parts List

Parts No.	Stock No.	Description
	46148200	Jack, Compu Selector

5. OTHER PARTS

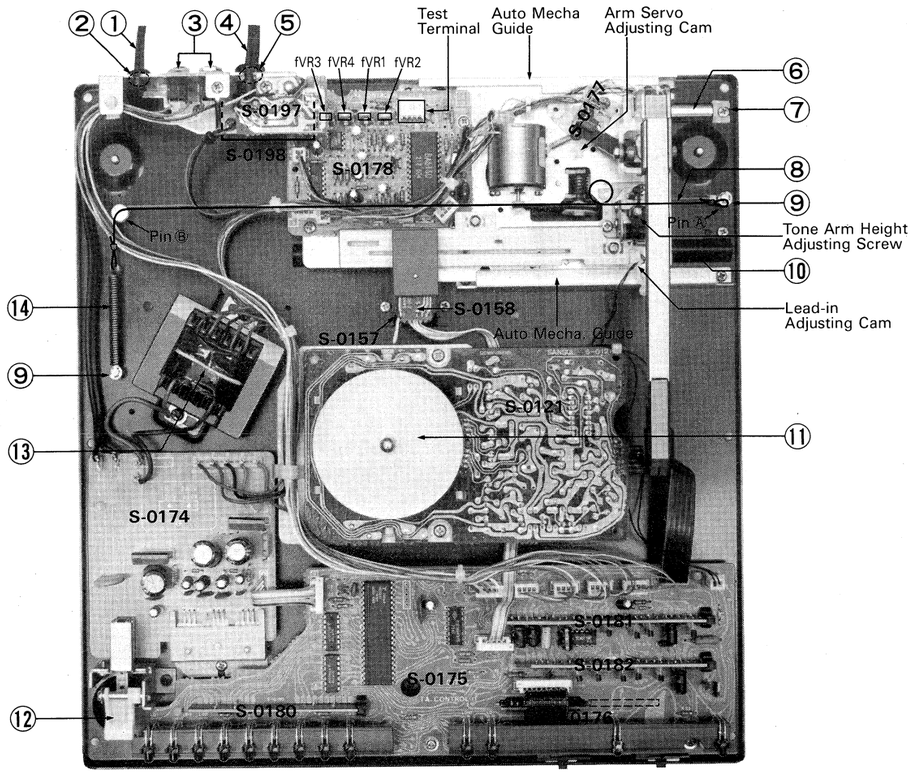
5-1. Front View



Parts List <Front View>

Parts No.	Stock No.	Description
1	18075100	Tone Arm Ass'y with cartridge SV-S707
2	13228400	SN-707 Stylus
3	13300300	Player Case Cover
4	47800600	Push Knob Ass'y (A) START/STOP, MANUAL, UP/DOWN, REPEAT, INTROSKIP
5	46394200	Push SW., START/STOP, MANUAL, UP/DOWN, REPEAT, INTROSKIP
6	13216500	Slide Knob, SENSITIVITY, SPEED
7	46133600	Slide SW., SPEED
8	46133500	Slide SW., SENSITIVITY
9	13209500	Push Knob Ass'y, RANDOM ACCESS PROGRAM 1~9, CLEAR
10	47748200	Control Plate
11	47747900	Push Knob, POWER
⚠ 12	46413900	Push SW., POWER
13	13159710	Turntable Platter
14	13099110	Turntable Sheet (XX,CSA,EU,BS,AS)
	13099510	Turntable Sheet (UL)
15	13012300	EP Adaptor
	13296300	Hinge
	47748100	Dust Cover Ass'y
	13097310	Insulator

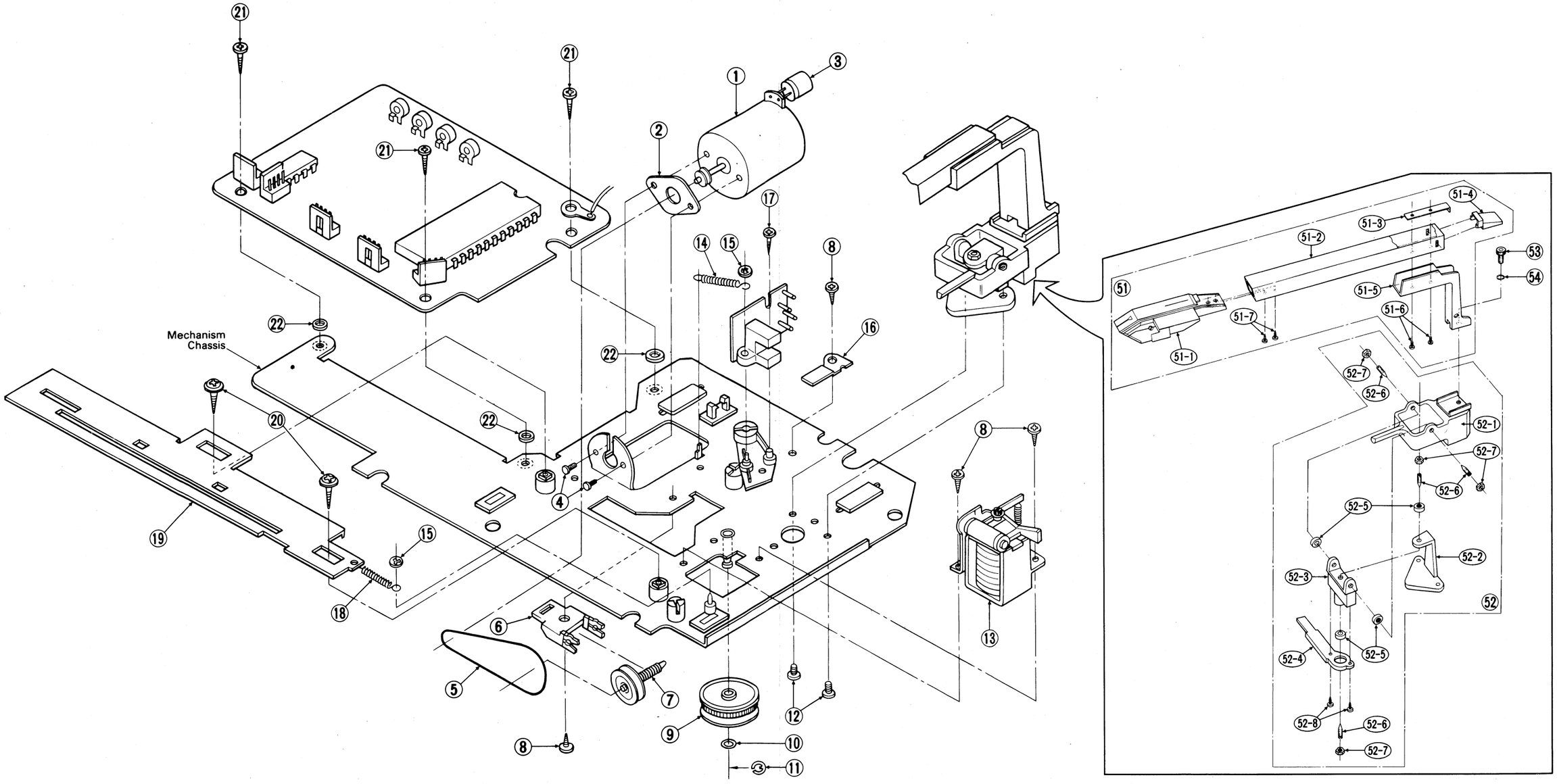
5-2. Top View



Parts List <Top View>

Parts No.	Stock No.	Description
⚠ 1	46413200	Power Supply Cord (XX)
⚠	38004700	Power Supply Cord (UL)
⚠	38004500	Power Supply Cord (EU)
⚠	38004300	Power Supply Cord (BS)
⚠	07204200	Power Supply Cord (AS)
⚠	48187400	Power Supply Cord (CSA)
2	39106000	Strain Relief (XX,UL)
	39104900	Strain Relief (CSA,EU,BS,AS)
3	46148200	Jack, COMPU-SELECTOR, COMPU-EDITING
4	13222400	P.U. Output Cord (XX,CSA,EU,BS,AS)
	13222500	P.U. Output Cord (UL)
5	39104900	Strain Relief
6	13292900	Pipe
7	13106200	Pipe Holder
8	13220400	Drive Wire
9	00489200	E-Ring 3ϕ
10	13216400	Angle Rail
11	18032300	DD Motor with Control Circuit Board S-0121
12	13212000	Power Switch Guide
⚠ 13	15008311	Power Transformer (XX)
⚠	15008312	Power Transformer (UL,CSA)
⚠	15008315	Power Transformer (EU,BS,AS)
14	13220500	Tension Spring

6. EXPLODED VIEW OF AUTO MECHANISM & PARTS LIST



Parts List

Parts No.	Stock No.	Description
1	13217510	DC Motor
2	55029810	Rubber Cushion
3	00305600	22μF 25V E.B.
4	00436500	M2X4 Pan Head Screw
5	13103810	Belt
6	13098110	Shaft Guide (B)
7	13134200	Warm Shaft Ass'y (B)
8	00454400	M3X6 Binding Head Tapping Screw
9	13215800	Drive Gear
10	51825300	FT3 Thrust Wahser

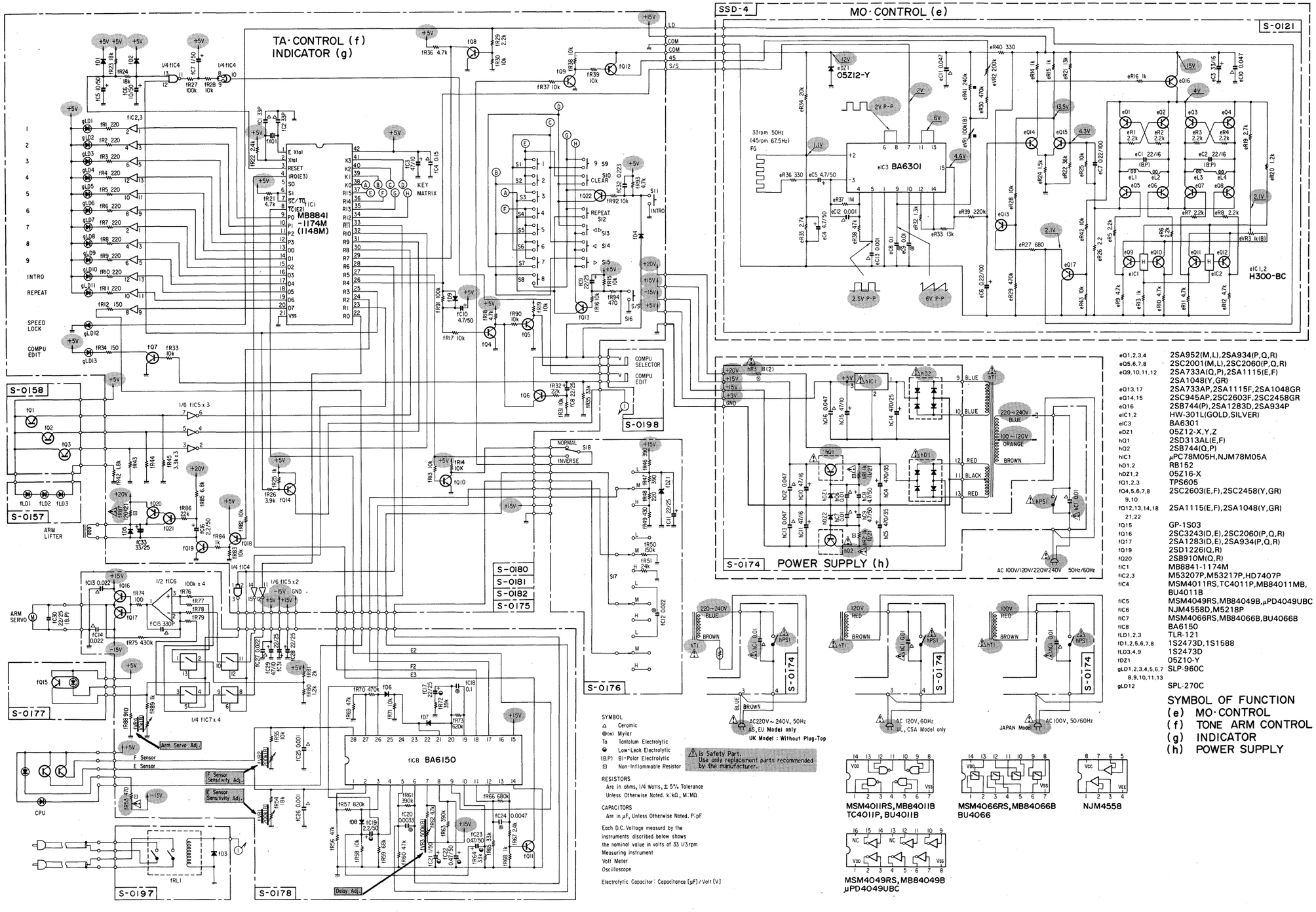
Parts No.	Stock No.	Description
11	00489000	D2 E. Ring
12	00421900	M3X6 Binding Head Screw
13	13216100	Plunger Solenoid Ass'y
14	13111400	Tension Spring (1)
15	51830000	CS-Type Wahser
16	13225900	Protector Plate
17	13226100	M2X4 Binding Head Tapping Screw
18	13111500	Tension Spring (2)
19	13216000	Position Guide
20	51625100	M3X8 Pan Head Tapping Screw

Parts No.	Stock No.	Description
21	00454500	M3X8 Binding Head Tapping Screw
22	13226000	M9 Isolation Washer
51	18075100	Tone Arm Ass'y
51-1	———	SV-S707 Cartridge Ass'y
51-2	———	Pipe
51-3	———	GND Rag
51-4	———	Pipe Cover
51-5	———	Pipe Holder
51-6	———	M2X4 Pan Head Screw
51-7	———	M2X4 Pan Head Tapping Screw

Parts No.	Stock No.	Description
52	18075200	Pivot Ass'y
52-1	———	Arm Bracket
52-2	———	Pivot Stay
52-3	———	Pivot Holder
52-4	———	Servo Plate
52-5	———	Pivot Bearing
52-6	———	Pivot
52-7	———	M3 H3xagon Nut
52-8	———	M2X6 Pan Head Tapping Screw
53	00453500	M4X8 Hexagon Socket Head Screw
54	00469800	D4 Spring Washer

7. SCHEMATIC DIAGRAM

* Design and specifications subject to change without notice for improvement.
* La présention et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.



SYMBOL
△ Ceramic
Ⓜ Mylar
To Tantalum Electrolytic
⊖ Low-Leak Electrolytic
(B.P) Bi-Polar Electrolytic
⊡ Non-Inflammable Resistor

RESISTORS
Are in ohms, 1/4 Watts, ± 5% Tolerance
Unless Otherwise Noted. K:kΩ, M:MΩ

CAPACITORS
Are in μF, Unless Otherwise Noted. P:pF

Each D.C. Voltage measurd by the instruments discribed below shows the nominal value in volts of 33 1/3rpm
Measuring instrument
Volt Meter
Oscilloscope

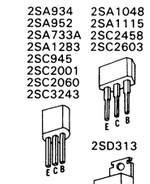
Electrolytic Capacitor : Capacitance (μF) / Volt (V)

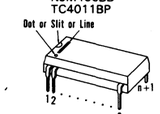
⚠ Is Safety Part. Use only replacement parts recommended by the manufacturer.

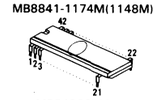
eQ1,2,3,4	2SA952(M,L),2SA934(P,Q,R)
eQ5,6,7,8	2SC2001(M,L),2SC2060(P,Q,R)
eQ9,10,11,12	2SA733A(Q,P),2SA1115(E,F) 2SA1048(Y,GR)
eQ13,17	2SA733AP,2SA1115F,2SA1048GR
eQ14,15	2SC945AP,2SC2603F,2SC2458GR
eQ16	2SB744(P),2SA1283D,2SA934P
eIC1,2	HW-301L(GOLD,SILVER)
eIC3	BA6301
eDZ1	05Z12-X,Y,Z
hQ1	2SD313AL(E,F)
hQ2	2SB744(Q,P)
hIC1	μPC78M05H,NJM78M05A
hD1,2	RB152
hDZ1,2	05Z16-X
fQ1,2,3	TPS605
fQ4,5,6,7,8,9,10	2SC2603(E,F),2SC2458(Y,GR)
fQ12,13,14,18,21,22	2SA1115(E,F),2SA1048(Y,GR)
fQ15	GP-1S03
fQ16	2SC3243(D,E),2SC2060(P,Q,R)
fQ17	2SA1283(D,E),2SA934(P,Q,R)
fQ19	2SD1226(Q,R)
fQ20	2SB910M(Q,R)
fIC1	MB8841-1174M
fIC2,3	M53207P,M53217P,HD7407P
fIC4	MSM4011RS,TC4011P,MB84011MB, BU4011B
fIC5	MSM4049RS,MB84049B,μPD4049UBC
fIC6	NJM4558D,M5218P
fIC7	MSM4066RS,MB84066B,BU4066B
fIC8	BA6150
fLD1,2,3	TLR-121
fD1,2,5,6,7,8	1S2473D,1S1588
fLD3,4,9	1S2473D
fDZ1	05Z10-Y
gLD1,2,3,4,5,6,7,8,9,10,11,13	SLP-960C
gLD12	SPL-270C

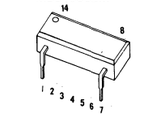
SYMBOL OF FUNCTION
(e) MO·CONTROL
(f) TONE ARM CONTROL
(g) INDICATOR
(h) POWER SUPPLY

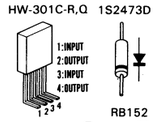
2SA934 2SA1048
2SA952 2SA1115
2SA733A 2SC2458
2SA1283 2SC2603
2SC945
2SC2001
2SC2060
2SC3243











8. MAIN PARTS REPLACEMENT

(See Top View on page 12 and Exploded View of Auto Mechanism on page 13)

8-1. Replacement of Mechanism Assembly

1) Take off turntable sheet and turntable platter.
2) Remove the player case cover.
3) Loosen 8 screws Ⓢ (See Fig. 3-10 on page 6).
4) Move the tone arm and stop the stylus at a position about 10 cm away from the disc center.
5) Remove the cabinet upward slowly.
6) Remove the auto mecha. guide. (See Top View on page 12)
7) Remove the wire from pin Ⓑ. (See Top View on page 12)
8) Take off the wire from the driving gear ⑨.

8-2. Replacement of Pivot Ass'y ⑫

1) Perform the items 1), 2), 3) and 4) "8-1. Replacement of Mechanism Ass'y" first.
2) Loosen the hexagon socket head screw ⑬ to remove the tone arm ass'y ⑪
3) Perform the items 6), 7) and 8) "8-1. Replacement of Mechanism Ass'y."
4) Remove two screws ⑫ fixing the pivot ass'y under the mechanism chassis.
5) Take off the pivot ass'y from the mechanism ass'y.

8-3. Note on Parts Replacement

1) When replacing the shaft guide (B) ⑥, the warm gear ass'y (B) ⑦ and the driving gear ⑨, remove under the mechanism chassis.
2) When installing the wire, wind round the drive gear and fit the pin Ⓐ as shown in Fig. 8-1.
3) Refer to Fig. 8-2, when wiring from cartridge (tone arm ass'y ⑪).
4) Perform adjustments 3-1, 3-2, 3-3 and 3-6, when replacing a parts of the mechanism ass'y.

Fig. 8-1

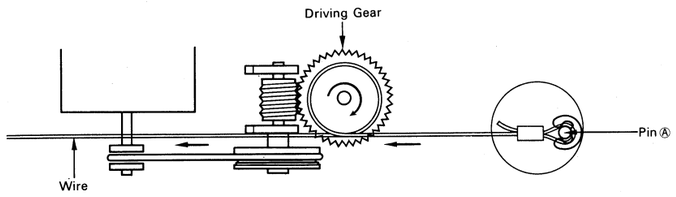
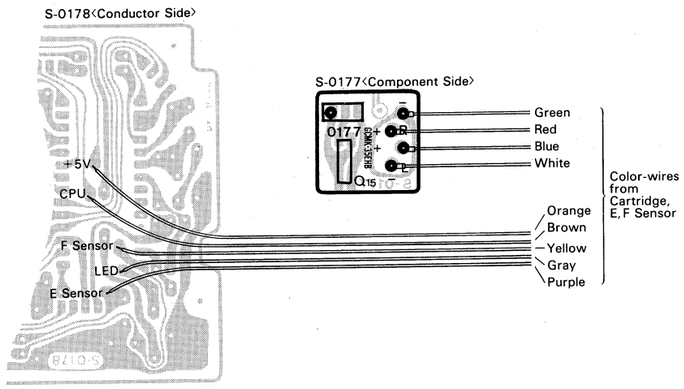
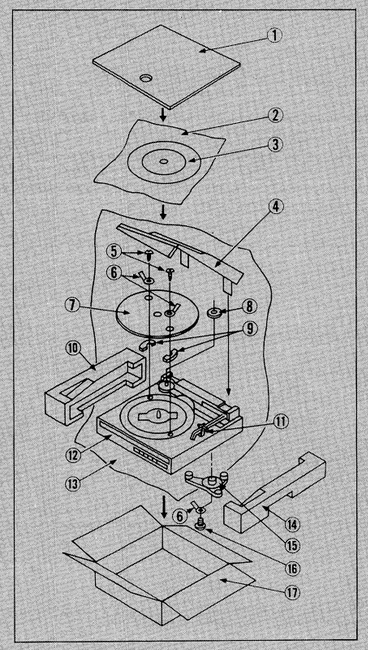


Fig. 8-2



9. PACKING LIST

Parts No.	Stock No.	Description
1	———	Cargated Board
2	91166000	Vinyl Bag, Rubber Mat
5	13186800	M4X25 Tapping Screw
6	51829200	Tag Washer
8	13012300	45 Adaptor
9	13163220	Spacer
10	13211600	Styrofoam Packing (Left)
11	———	Binder
13	91122710	Vinyl Bag, Turntable
14	13211500	Styrofoam Packing (Right)
15	13220610	Protector, Auto Mechanism
16	00449700	M4X12 Pan Head SEMS Screw
17	47942300	Carton Case



10. ACCESSORY LIST

Stock No.	Description
46980700	Operating Instruction
46983600	Operating Sheet
48181600	Mini Plug Cord, COMPU SELECTOR

Sansui

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